

PATENT

Practitioner's Docket No. IB-1695

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Int'l application of: Groves, John T.; Mahal, Lara K. and Bertozzi, Carolyn R.

Application No.: 10/076,727

Group No.: 1645

Filed: February 13, 2002

Examiner: Unassigned

For: Modulation of cellular adhesion with lipid membrane micro-arrays

Assistant Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING OR
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. § 1.97(b))

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The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. § 1.97(b).

Date: 5/10/2002

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Application Number	10/076,727
Filing Date	February 13, 2002
First Named Inventor	John T. Groves
Group Art Unit	1645
Examiner Name	Unassigned
Attorney Docket Number	IB-1695

Total Number of Pages in This Submission

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Sheet 1 of 5

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Application Number	10/076,727
Filing Date	02/13/2002
First Named Inventor	John T. Groves
Group Art Unit	1645
Examiner Name	Unassigned
Attorney Docket Number	IB-1695

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	✓	KLEINFELD, D., K.H. KAHLER AND P.E. HOCKBERGER, "Controlled outgrowth of dissociated neurons on patterned substrates," J. Neurosci, Vol. 8 (No. 11), p. 4098-4120, (1988).	
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	✓	CHEN, C.S., ET AL., "Geometric Control of Cell Life and Death," Science, Vol. 276, p. 1425-1428, (1997).	
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	✓	CHEN, C., ET AL., "Micropatterned surfaces for control of cell shape, position, and function," Biotechnol. Prog., Vol. 14 (No. 3), p. 356-363, (1998).	

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Filing Date 02/13/2002
First Named Inventor John T. Groves
Group Art Unit 1645
Examiner Name Unassigned
Attorney Docket Number IB-1695

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	✓	ROBERTS, C., ET AL., "Using mixed self-assembled monolayers presenting RGD and (EG)30H groups . . . surfaces," J. Am Chem. Soc., Vol. 120 (No. 26), p. 6548-6555, (1998).	
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Sheet 3 of 5

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Application Number	10/076,727
Filing Date	02/13/2002
First Named Inventor	John T. Groves
Group Art Unit	1645
Examiner Name	Unassigned
Attorney Docket Number	1B-1695

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	✓	WATTS, T.H. AND H.M. MCCONNELL, "Biophysical aspects of antigen recognition by T cells," Ann. Rev. Immunol., Vol. 5, p. 461-475, (1987).	
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	✓	GROVES, J.T., S.G. BOXER, AND H.M. MCCONNELL, "Electric field-induced reorganization of two-component supported bilayer membranes," Proc. Natl. Acad. Sci. USA, Vol. 94, p. 13390-13395, (1997).	

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	✓	CREMER, P.S., J.T. GROVES, L.A. KUNG, AND S.G. BOXER, "Writing and erasing barriers to lateral mobility into fluid phospholipid bilayers," <i>Langmuir</i> , Vol. 15 (No. 11), p. 3893-3896, (1999).	
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	✓	PUU, G, I. GUSTAFSON, E. ARTURSSON & P.-A. OHLSSON, "Retained activities of some membrane proteins in stable lipid bilayers on a solid support," <i>Biosensors & Bioelectronics</i> , Vol. 10 (No. 5), p. 463-476, (1995).	
	✓	KAM, L. AND S.G. BOXER, "Cell adhesion to protein-micropatterned-supported lipid bilayer membranes," <i>J. Biomed. Mater. Res.</i> , Vol. 55 (No. 4), p. 487-495, (2001).	
	✓	DORI, Y., H. BIANCO-PELED, S.K. SATIJA, G.B. FIELDS, J.B. MCCARTHY, AND M. TIRRELL, "Ligand accessibility as means to control cell response to bioactive bilayer membranes," <i>J. Biomed. Mater. Res.</i> , Vol. 50, p. 75-81, (2000).	
	✓	VAN OUDENAARDEN, A. AND S.G. BOXER, "Brownian Ratchets: Molecular Separations in Lipid Bilayers Supported on Patterned Arrays," <i>Science</i> , Vol. 285, p. 1046-1048, (1999).	

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	of	First Named Inventor	John T. Groves
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	✓	STEIN, T. AND G. GERISCH, "Oriented Binding of a Lipid-Anchored Cell Adhesion Protein . . . and Photoactive Crosslinking," Anal. Biochem., Vol. 237, p. 252-259, (1996).	
	✓	RUOSLAHTI, E. AND B. OBRINK, "Common Principles in Cell Adhesion," Exp. Cell Res., Vol. 227, p. 1-11, (1996).	
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	✓	HUO, Y. AND K. LEY, "Adhesion molecules and atherogenesis," Acta Physiol Scand, Vol. 173, p. 35-43, (2001).	
	✓	KRIEGLSTEIN, C.F. AND D. N. GRANGER, "Adhesion Molecules and Their Role in Vascular Disease," Amer. J. Hypertension, Vol. 14 (No. 6), p. 44S-54S, (2001).	
	✓	McFARLAND, C.D., C.H. THOMAS, C. DEFILIPPIS, J.G. STEELE, AND K.E. HEALY, "Protein adsorption and cell attachment to patterned surfaces," J. Biomed. Mater. Res., Vol. 49, p. 200-210, (2000).	
	✓	DU, H., P. CHANDAROY AND S.W. HUI, "Grafted poly-(ethylene glycol) on lipid surfaces inhibits protein adsorption and cell adhesion," Biochim. Biophys. Acta, Vol. 132 (No. 2), p. 236-248, (1997).	
	✓	GROVES, J.T., L.K. MAHAL AND C.R. BERTOZZI, "Control of cell adhesion and growth with membrane micro-arrays," Biophys. J. (Annual Meeting Abstracts), 80 (1), p. 144f, (2001).	
	✓	MASSIA, S.P. AND J.A. HUBBELL, "Covalent Surface Immobilization of Arg-Gly-Asp- and Tyr-Ile-Gly-Ser-Arg-Containing Peptides to Obtain Well-Defined Cell-Adhesive Substrates," Anal. Biochem., Vol. 187, p. 292-301, (1990).	

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